Name of Work :-Improvements to roads and drains at Bettahalli Colony in ward no:03 of Yelahanka satellite town sub division

EMB

"SECOND AND FINAL BILL"

Name of Work :-Improvements to roads and drains at Bettahalli Colony in ward no:03 of Yelahanka satellite town sub division

PRE-MEASUREMENT SHEETS

"SECOND AND FINAL BILL"

Name of Work :-Improvements to roads and drains at Bettahalli Colony in ward no:03 of Yelahanka satellite town sub division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
6	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications.						
	2nd And Final Bill						
	Asphalt Road						
	Adtiyanagara						
	10th Main Rd						
	Ch:0.00m to 5.60m	1	5.60	(8.50 + 6.70)/2		42.56	
	Ch:5.60m to 35.60m	1	30.00	(5.60 + 5.10)/2		160.50	
	Ch:35.60m to 65.60m	1	30.00	(5.10 + 5.20)/2		154.50	
	Ch:65.60m to 95.60m	1	30.00	(5.20 + 5.30)/2		157.50	
	Ch:95.60m to 125.60m	1	30.00	(5.40 + 5.40)/2		162.00	
	Ch:125.60m to 144.90m	1	19.30	(5.40 + 5.40)/2		104.22	
	Upto Culvert						
	Ch:144.90m to 174.90m	1	30.00	(5.40 + 5.30)/2		160.50	
	Ch:174.90m to 183.70m	1	8.80	(5.30 + 5.30)/2		46.64	
	Basavalingappanagara						
	Subbana Garden Road From Main Rd						
	Ch:0.00m to 30.0m	1	30.00	(9.40 + 9.30)/2		280.50	
	Ch:30.00m to 60.00m	1	30.00	(9.30 + 9.30)/2		279.00	
	Ch:60.00m to 90.00m	1	30.00	(9.30 + 9.30)/2		279.00	
	Ch:90.00m to 111.00m	1	21.00	(9.30 + 8.80)/2		190.05	
	Ch:111.00m to 130.00m	1	19.00	(7.80 + 8.10)/2		151.05	

2165.02

Contractor

Consultant

Asst. Engineer

Asst. Exec. Engineer

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:130.00m to 152.00m	1	22.00	(9.10 + 8.60) / 2		194.70	
	Ch:152.00m to 161.00m	1	9.00	(9.30 + 9.50) / 2		84.60	
	1st Main Road From Subbana Garden Rd						
	Ch:0.00m to 30.00m	1	30.00	(7.00 + 6.70) / 2		205.50	
	Ch:30.00m to 60.00m	1	30.00	(6.70 + 6.50) / 2		198.00	
	Ch:60.00m to 90.00m	1	30.00	(6.50 + 6.30) / 2		192.00	
	Ch:90.00m to 96.80m	1	6.80	(6.30 + 6.40) / 2		43.18	
	2nd Main Road From Dead End						
	Ch:0.00m to 30.00m	1	30.00	(6.70 + 5.70) / 2		186.00	
	Ch:30.00m to 51.50m	1	21.50	(5.70 + 6.30) / 2		129.00	
	Ch:51.50m to 63.10m	1	11.60	(6.80 + 6.80) / 2		78.88	
	Ch:63.10m to 74.70m	1	11.60	(5.90 + 6.20) / 2		70.18	
	Ch:74.70m to 103.90m	1	29.20	(6.80 + 6.90) / 2		200.02	
	Attur Layout						
	2nd Main Rd From 3rd Crs To 2nd Crs Rd						
	Ch:0.00m to 15.00m	1	15.00	(4.00 + 3.40) / 2		55.50	
	Ch:15.00m to 30.00m	1	15.00	(3.40 + 3.50) / 2		51.75	
	Ch:30.00m to 45.00m	1	15.00	(3.50 + 4.20) / 2		57.75	
	Ch:45.00m to 60.00m	1	15.00	(4.20 + 4.20) / 2		63.00	
	Ch:60.00m to 72.60m	1	12.60	(4.20 + 4.10) / 2		52.29	
	3rd Cross Rd From Main Rd						
	Ch:0.00m to 15.00m	1	15.00	(5.95 + 5.20) / 2		83.63	
	Ch:15.00m to 30.00m	1	15.00	(5.20 + 6.40) / 2		87.00	
	Ch:30.00m to 45.00m	1	15.00	(6.40 + 6.10) / 2		93.75	

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Contractor

Consultant

Asst. Engineer

Asst. Exec. Engineer,

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:45.00m to 50.00m	1	10.00	(6.10 + 5.50) / 2		58.00	
						4352.75	Sqm
					Qty Paid in 1st And Part Bill	0.00	Sqm
					Total Qty	4352.75	Sqm
					Deduct Qty Paid in 1st And Part Bill	0.00	Sqm
					Present Qty In 2nd Bill	4352.75	Sqm

Contractor

Consultant

Asst. Engineer

Asst. Exec. Engineer

Name of Work :-Improvements to roads and drains at Bettahalli Colony in ward no:03 of Yelahanka satellite town sub division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
7	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen						
	2nd And Final Bill						
	Asphalt Road						
	Adtiyanagara						
	10th Main Rd						
	Ch:0.00m to 5.60m	1	5.60	(8.50 + 6.70)/2	0.05	2.13	
	Ch:5.60m to 35.60m	1	30.00	(5.60 + 5.10)/2	0.05	8.03	
	Ch:35.60m to 65.60m	1	30.00	(5.10 + 5.20)/2	0.05	7.73	
	Ch:65.60m to 95.60m	1	30.00	(5.20 + 5.30)/2	0.05	7.88	
	Ch:95.60m to 125.60m	1	30.00	(5.40 + 5.40)/2	0.05	8.10	
	Ch:125.60m to 144.90m	1	19.30	(5.40 + 5.40)/2	0.05	5.21	
	Upto Culvert						
	Ch:144.90m to 174.90m	1	30.00	(5.40 + 5.30)/2	0.05	8.03	
	Ch:174.90m to 183.70m	1	8.80	(5.30 + 5.30)/2	0.05	2.33	
	Basavalingappanagara						
	Subbana Garden Road From Main Rd						
	Ch:0.00m to 30.0m	1	30.00	(9.40 + 9.30)/2	0.05	14.03	
	Ch:30.00m to 60.00m	1	30.00	(9.30 + 9.30)/2	0.05	13.95	
	Ch:60.00m to 90.00m	1	30.00	(9.30 + 9.30)/2	0.05	13.95	
	Ch:90.00m to 111.00m	1	21.00	(9.30 + 8.80)/2	0.05	9.50	

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Executive Engineer,
Yelahanka Division,
B.B.M.P, Bangalore - 64

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Asst. Engineer

Asst. Exec. Engineer,

Contractor

Consultant

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:15.00m to 30.00m	1	15.00	(5.20 + 6.40) / 2	0.05	4.35	
	Ch:30.00m to 45.00m	1	15.00	(6.40 + 6.10) / 2	0.05	4.69	
	Ch:45.00m to 50.00m	1	10.00	(6.10 + 5.50) / 2	0.05	2.90	
				Present Qty		**217.64**	**Cum**
				Qty Paid in 1st And Part Bill		**0.00**	**Cum**
				Total Qty		**217.64**	**Cum**
				Deduct Qty Paid in 1st And Part Bill		**0.00**	**Cum**
				Present Qty In 2nd Bill		**217.64**	**Cum**

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Contractor

Consultant

Asst. Engineer

Asst. Exec. Engineer,

Name of Work :-Improvements to roads and drains at Bettahalli Colony in ward no:03 of Yelahanka satellite town sub division

MEASUREMENT SHEETS

"SECOND AND FINAL BILL"

Name of Work :-Improvements to roads and drains at Bettahalli Colony in ward no:03 of Yelahanka satellite town sub division

Detailed Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
6	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per								
	Vide Premeasurement page no.					4352.75			
					Present Qty	**4352.75**	**Cum**	**13.35**	**58114.00**
7	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with								
	Vide Premeasurement page no.					217.64			
					Present Qty	**217.64**	**Cum**	**6725.52**	**1463725.00**

Contractor

Consultant

Assistant Engineer

Asst. Executive Engineer

Name of Work :-Improvements to roads and drains at Bettahalli Colony in ward no:03 of Yelahanka satellite town sub division

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
8	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70								
	2nd And Final Bill								
	Asphalt Road								
	Adtiyanagara								
	10th Main Rd								
	Ch:0.00m to 5.60m	1	5.60	$\frac{8.50 + 6.70}{2}$	0.04	1.70			
	Ch:5.60m to 35.60m	1	30.00	$\frac{5.60 + 5.10}{2}$	0.04	6.42			
	Ch:35.60m to 65.60m	1	30.00	$\frac{5.10 + 5.20}{2}$	0.04	6.18			
	Ch:65.60m to 95.60m	1	30.00	$\frac{5.20 + 5.30}{2}$	0.04	6.30			
	Ch:95.60m to 125.60m	1	30.00	$\frac{5.40 + 5.40}{2}$	0.04	6.48			
	Ch:125.60m to 144.90m	1	19.30	$\frac{5.40 + 5.40}{2}$	0.04	4.17			
	Upto Culvert								
	Ch:144.90m to 174.90m	1	30.00	$\frac{5.40 + 5.30}{2}$	0.04	6.42			
	Ch:174.90m to 183.70m	1	8.80	$\frac{5.30 + 5.30}{2}$	0.04	1.87			
	Basavalingappanagara								
	Subbana Garden Road								
	From Main Rd								
	Ch:0.00m to 30.0m	1	30.00	$\frac{9.40 + 9.30}{2}$	0.04	11.22			
	Ch:30.00m to 60.00m	1	30.00	$\frac{9.30 + 9.30}{2}$	0.04	11.16			
	Ch:60.00m to 90.00m	1	30.00	$\frac{9.30 + 9.30}{2}$	0.04	11.16			

73.08

Executive Engineer,
Yelahanka Division,
B.B.M.P, Bangalore - 64.

Asst. Engineer

Contractor

Consultant

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Asst. Exec. Engineer

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Ch:90.00m to 111.00m	1	21.00	(9.30 + 8.80)/2	0.04	7.60			
	Ch:111.00m to 130.00m	1	19.00	(7.80 + 8.10)/2	0.04	6.04			
	Ch:130.00m to 152.00m	1	22.00	(9.10 + 8.60)/2	0.04	7.79			
	Ch:152.00m to 161.00m	1	9.00	(9.30 + 9.50)/2	0.04	3.38			
	1st Main Road From Subbana Garden Rd								
	Ch:0.00m to 30.00m	1	30.00	(7.00 + 6.70)/2	0.04	8.22			
	Ch:30.00m to 60.00m	1	30.00	(6.70 + 6.50)/2	0.04	7.92			
	Ch:60.00m to 90.00m	1	30.00	(6.50 + 6.30)/2	0.04	7.68			
	Ch:90.00m to 96.80m	1	6.80	(6.30 + 6.40)/2	0.04	1.73			
	2nd Main Road From Dead End								
	Ch:0.00m to 30.00m	1	30.00	(6.70 + 5.70)/2	0.04	7.44			
	Ch:30.00m to 51.50m	1	21.50	(6.70 + 6.30)/2	0.04	5.16			
	Ch:51.50m to 63.10m	1	11.60	(6.80 + 6.80)/2	0.04	3.16			
	Ch:63.10m to 74.70m	1	11.60	(5.90 + 6.20)/2	0.04	2.81			
	Ch:74.70m to 103.90m	1	29.20	(6.80 + 6.90)/2	0.04	8.00			
	Attur Layout								
	2nd Main Rd From 3rd Crs To 2nd Crs Rd								
	Ch:0.00m to 15.00m	1	15.00	(3.00 + 3.40)/2	0.04	2.22			
	Ch:15.00m to 30.00m	1	15.00	(3.40 + 3.50)/2	0.04	2.07			
	Ch:30.00m to 45.00m	1	15.00	(3.50 + 4.20)/2	0.04	2.31			
	Ch:45.00m to 60.00m	1	15.00	(4.20 + 4.20)/2	0.04	2.52			
	Ch:60.00m to 72.60m	1	12.60	(4.20 + 4.10)/2	0.04	2.09			
	3rd Cross Rd From								

Executive Engineer,
Yelahanka Division,
B.B.M.P, Bangalore-64

Contractor

Consultant

Asst. Engineer

Asst. Exec. Engineer,

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Ch:0.00m to 15.00m	1	15.00	(5.95 + 5.20) / 2	0.04	3.35			
	Ch:15.00m to 30.00m	1	15.00	(5.20 + 6.40) / 2	0.04	3.48			
	Ch:30.00m to 45.00m	1	15.00	(6.40 + 6.10) / 2	0.04	3.75			
	Ch:45.00m to 50.00m	1	5.00	(6.10 + 5.50) / 2	0.04	2.32			
				Present Qty		**174.11**	**Cum**		
				Qty Paid in 1st And Part Bill		**0.00**	**Cum**		
				Total Qty		**174.11**	**Cum**		
				Deduct Qty Paid in 1st And Part Bill		**0.00**	**Cum**		
				Present Qty In 2nd Bill		**174.11**	**Cum**	**7911.53**	**1377475.00**

Contractor

Consultant

Asst Engineer

Asst. Exec. Engineer,

Name of Work :-Improvements to roads and drains at Bettahalli Colony in ward no:03 of Yelahanka satellite town sub division

Detailed Measurements

Measurement Recorded On:

Sl No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and								
	2nd And Final Bill								
	Asphalt Road								
	Adtiyanagara								
	10th Main Rd								
	Ch:0.00m to 5.60m	2	5.60	0.10		1.12			
	Ch:5.60m to 35.60m	2	30.00	0.10		6.00			
	Ch:35.60m to 65.60m	2	30.00	0.10		6.00			
	Ch:65.60m to 95.60m	2	30.00	0.10		6.00			
	Ch:95.60m to 125.60m	2	30.00	0.10		6.00			
	Ch:125.60m to 144.90m	2	19.30	0.10		3.86			
	Upto Culvert								
	Ch:144.90m to 174.90m	2	30.00	0.10		6.00			
	Ch:174.90m to 183.70m	2	8.80	0.10		1.76			
	Basavalingappanagara								
	Subbana Garden Road From Main Rd								
	Ch:0.00m to 30.0m	2	30.00	0.10		6.00			
	Ch:30.00m to 60.00m	2	30.00	0.10		6.00			
	Ch:60.00m to 90.00m	2	30.00	0.10		6.00			
	Ch:90.00m to 111.00m	2	21.00	0.10		4.20			
	Ch:111.00m to 130.00m	2	19.00	0.10		3.80			
	Ch:130.00m to 152.00m	2	22.00	0.10		4.40			
	Ch:152.00m to 161.00m	2	9.00	0.10		1.80			
	Centre Line								
	Subbana Garden Road From Main Rd								
	Ch:0.00m to 30.0m	0.5	30.00	0.10		1.50			
	Ch:30.00m to 60.00m	0.5	30.00	0.10		1.50			
	Ch:130.00m to 152.00m	0.5	22.00	0.10		1.10			
	Ch:152.00m to 161.00m	0.5	9.00	0.10		0.45			
	1st Main Road From Subbana Garden Rd								

73-49

Contractor

Consultant

Asst. Engineer

Asst. Exec. Engineer,

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
Ch:0.00m to 30.00m	2	30.00	0.10		6.00			
Ch:30.00m to 60.00m	2	30.00	0.10		6.00			
Ch:60.00m to 90.00m	2	30.00	0.10		6.00			
Ch:90.00m to 96.80m	2	6.80	0.10		1.36			
2nd Main Road From Dead End								
Ch:0.00m to 30.00m	2	30.00	0.10		6.00			
Ch:30.00m to 51.50m	2	21.50	0.10		4.30			
Ch:51.50m to 63.10m	2	11.60	0.10		2.32			
Ch:63.10m to 74.70m	2	11.60	0.10		2.32			
Ch:74.70m to 103.90m	2	29.20	0.10		5.84			
Attur Layout								
2nd Main Rd From 3rd Crs To 2nd Crs Rd								
Ch:0.00m to 15.00m	2	15.00	0.10		3.00			
Ch:15.00m to 30.00m	2	15.00	0.10		3.00			
Ch:30.00m to 45.00m	2	15.00	0.10		3.00			
Ch:45.00m to 60.00m	2	15.00	0.10		3.00			
Ch:60.00m to 72.60m	2	12.60	0.10		2.52			
3rd Cross Rd From Main Rd								
Ch:0.00m to 15.00m	2	15.00	0.10		3.00			
Ch:15.00m to 30.00m	2	15.00	0.10		3.00			
Ch:30.00m to 45.00m	2	15.00	0.10		3.00			
Ch:45.00m to 50.00m	2	10.00	0.10		2.00			
				Present Qty	**139.15**	**Sqm**		
				Qty Paid in 1st And Part Bill	**0.00**	**Sqm**		
				Total Qty	**139.15**	**Sqm**		
				Deduct Qty Paid in 1st And Part Bill	**0.00**	**Sqm**		
				Present Qty In 2nd Bill	**139.15**	**Sqm**	**477.30**	**66416.00**

Contractor Consultant

Asst. Engineer

Asst. Exec. Engineer,

e of Work :-Improvements to roads and drains at Bettahalli Colony in ward no:03 of Yelahanka satellite town sub division

Detailed Measurements

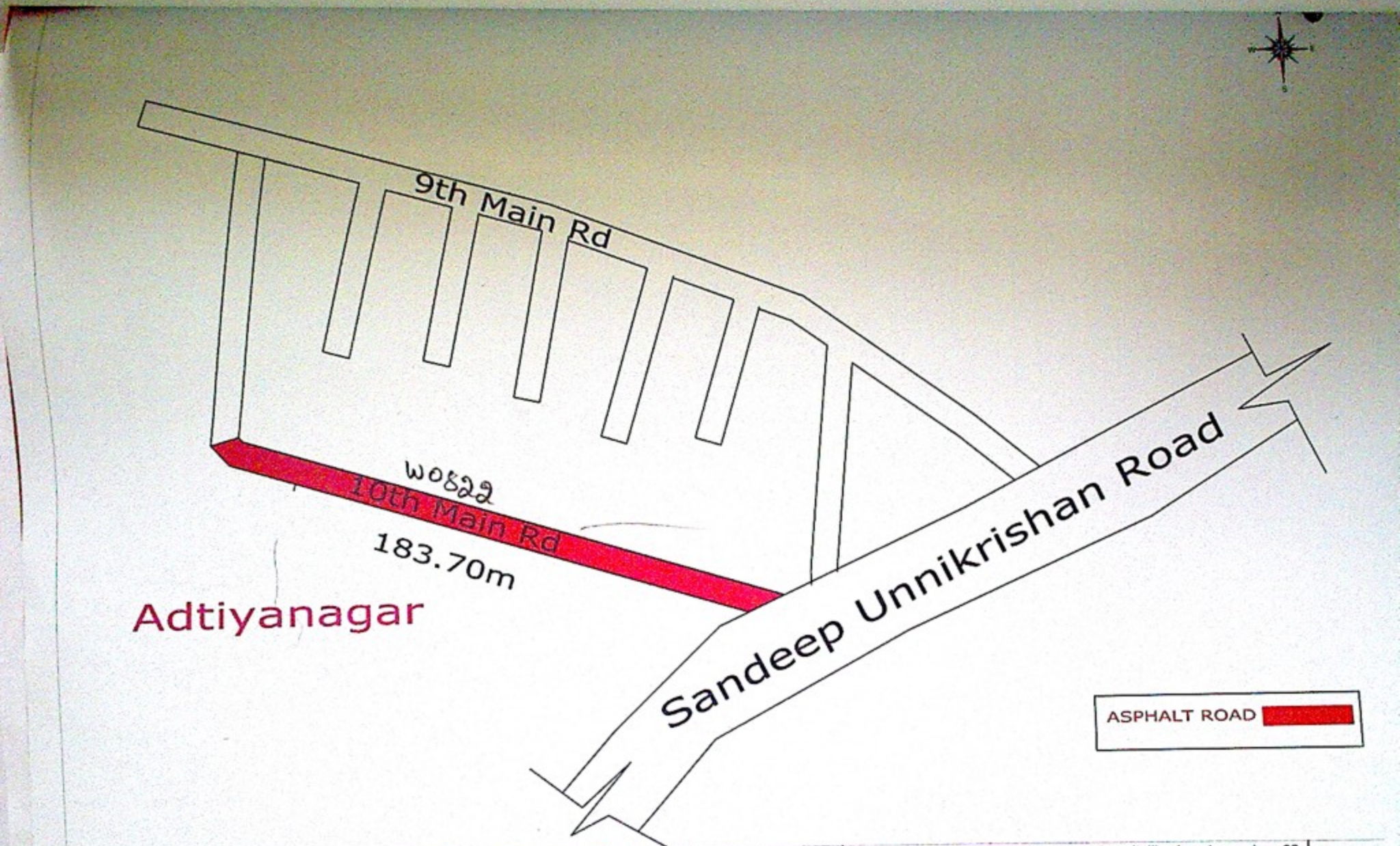
surement Recorded On:

Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
KSRRB M800-35. Supply and Installtion of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000 kg tested in accordance to Specifications of Category A of MORTH Circular No RW/ NH/33023/10-97 – DO III Dt 11.06. 1997. The height, width and length shall not exceed 50 mm, 100 mm and 102 mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 mm and height not less than 30 mm) from the body is to be a minimum value of 500 Kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per								
2nd And Final Bill								
Basavalingappanagara								
Subbana Garden Road From Main Rd								
Ch:0.00m to 30.0m	3	3.00			9.00			
Ch:30.00m to 60.00m	3	3.00			9.00			
Ch:60.00m to 90.00m	3	3.00			9.00			
Ch:90.00m to 111.00m	3	3.00			9.00			
Ch:111.00m to 130.00m	2	3.00			6.00			
Ch:130.00m to 152.00m	3	3.00			9.00			
Ch:152.00m to 161.00m	1	1.00			3.00			
Present Qty					**54.00**	**Nos**		
Qty Paid in 1st And Part Bill					**0.00**	**Nos**		
Total Qty					**54.00**	**Nos**		
Deduct Qty Paid in 1st And Part Bill					**0.00**	**Nos**		
Present Qty In 2nd Bill					**54.00**	**Nos**	**374.94**	**20247.00**
						Total		**2985977.00**
						GST 12%		**358317.24**
						Grand Total		**3344294.24**

ontractor Consultant Asst. Engineer Asst. Exec. Engineer,

Improvements to roads and Drains at Bettahalli colony in ward no-03 of Yelahanka Town Sub Division

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಜಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106



BRUHAT BANGALORE MAHANAGARA PALIKE

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಪಾಲಿಕೆ ಕಿ, ಬೆಂಗಳೂರು-106

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ATTUR Layout

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ASPHALT ROAD

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